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Access DB# 56124**SEARCH REQUEST FORM**

Scientific and Technical Information Center

Requester's Full Name: Necholas O. D. Examiner #: 71046 Date: 12/5/01
 Art Unit: 1751 Phone Number 30 8-3732 Serial Number: 697250
 Mail Box and Bldg/Room Location: 9/326 Results Format Preferred (circle): PAPER DISK E-MAIL

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

*Litigation**5,464,551**11**08/099267*

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OGDEN 09/756196

Page 1

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<---CASES & ADMINISTRATIVE DECISIONS-->

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PTOMNI 1 FEDCTS, PTO, ITC, ALLREG

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<-----PATENTS GROUP FILES----->

ALL 4 UTIL, DESIGN, PLANT, SIR,

REEXAM & REISS

ALLPAT 4 Comb. ALL & INTPAT

<-----U.S. PATENTS----->

UTIL 4 Full Text Patents from 1971*

DESIGN 4 Full Text Patents from 1976

PLANT 4 Full Text Patents from 1976

USPGP 4 Pre-Grant Pubs. from 3/01

>

LEVEL 1 - 1 OF 1 PATENT

<5,464,551>

<=> GET 1st DRAWING SHEET OF 13

Nov. 7, 1995

Stabilized phosphate ester-based functional fluid
compositions

LIT-REEX: This Patent was reissued on Mar. 20, 2001 as Reissue Patent Re 37,101.

Reexamination requested Jul. 2, 1997 by owner, Reexamination No. 90/004,683
(O.G. Aug. 26, 1997) Ex. Gp.: 1105

REISSUE: Reissue Application filed Mar. 8, 2001 (O.G. Jul. 24, 2001) Ex. Gp.:
1725; Re. S.N. 09/801,883

Reissue Application filed Nov. 7, 1997 (O.G. Jan. 6, 1998) Ex. Gp.: 1105; Re.
S.N. 08/966,425
>>>

Pat. No. 5464551, *

INVENTOR: Deetman, Gerbrand, St. Charles, Missouri

ASSIGNEE-AT-ISSUE: Monsanto Company, St. Louis, Missouri (02)

ASSIGNEE-AFTER-ISSUE: Date Transaction Recorded: Nov. 28, 1997

ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

SOLUTIA INC. 10300 OLIVE BOULEVARD, P.O. BOX 66760 ST. LOUIS, MISSOURI 63166-676

Reel & Frame Number: 8820/0846

APPL-NO: 99,267

FILED: Jul. 28, 1993

REL-US-DATA:

Continuation-in-part of Ser. No. 897,189, Jun. 11, 1992 now abandoned

INT-CL: [6] C10M 3#26

US-CL: 252#78.5; 252#75; 252#77; 252#78.1; 508#282; 508#433;
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Pat. No. 5464551, *

CL: 252;508;

SEARCH-FLD: 252#75, 78.5, , 73, 46.7, 49.8, 49.9

REF-CITED:

U.S. PATENT DOCUMENTS

3,679,587	7/1972	* Smith	252#75
3,718,596	2/1973	* Richard, Jr.	252#78
3,723,320	3/1973	* Herber et al.	252#78
3,931,022	1/1976	* Chesluk et al.	252#49.9
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4,324,674	4/1982	* Mackinnon	252#78.5
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PRIM-EXMR: Lieberman, Paul
>>>

Pat. No. 5464551, *

ASST-EXMR: Ogden, Necholus

LEGAL-REP: Brooks; W.

CORE TERMS: alkyl, ester, stock, substituent, viscosity, aryl, proportion, improver, corrosion, effective, compound, isoalkyl, acid, aircraft, trialkyl, hydraulic, dialkyl, hydraulic fluid, atom, diaryl, carbon, stability, scavenger, antioxidant, additive, phenyl, centistokes, phosphate, anti-erosion, inhibitor

ABST:

A fluid composition suitable for use as an aircraft hydraulic fluid is disclosed. The fluid composition comprises a fire resistant phosphate ester base stock comprising between about 10% and about 100% by weight of a trialkyl phosphate, between about 0% and about 70% by weight of a dialkyl aryl phosphate, and from about 0% to about 25% by weight of an alkyl diaryl phosphate, with the proviso that the sum of the proportionate amount of each base stock component must equal 100%. The alkyl substituents of the trialkyl phosphate, the dialkyl aryl phosphate, and the alkyl diaryl phosphate contain between 3 and 8 carbon atoms, preferably between 4 and 8 carbon atoms, more preferably between 4 and 5 carbon atoms, and are bonded to the phosphate moiety via a primary carbon. It

>>>

Pat. No. 5464551, *

is still further preferred that the alkyl substituents of the trialkyl phosphate, the dialkyl aryl phosphate, and the alkyl diaryl phosphate are isoalkyl groups. The fluid composition further comprises an acid scavenger, an anti-erosion additive, a viscosity index improver, and an antioxidant. A novel additive combination comprises a high molecular weight butyl/hexyl methacrylate viscosity index improver, a perfluoroalkylsulfonate anti-erosion additive, a 3,4-epoxycyclohexanecarboxylate or a diepoxide acid scavenger, a di(alkylphenyl)amine, and a phenolic antioxidant comprising a mixture of a 2,4,6-trialkylphenol and a hindered polyphenol compound selected from the group consisting of bis(3,5-dialkyl-4-hydroxyaryl)methane, 1,3,5-trialkyl-2,4,6-tris(3,5-di-tert-butyl-4-hydroxyaryl)benzene and mixtures thereof. Preferably, the fluid composition further comprises a benzotriazole derivative as a copper corrosion inhibitor, and a 4,5-dihydroimidazole derivative, as an iron corrosion inhibitor and to enhance the stability of the

OGDEN 09/756196

Page 3

fluid.

NO-OF-CLAIMS: 89

EXMPL-CLAIM: <=<3>> 1
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5464551 OR 5,464,551

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Last database update : 2001/11/29 (YYYY/MM/DD) 2001-47/UP (basic update))

Search statement 1

?/pn us5464551

** SS 1: Results 1

Search statement 2

?prt ful legalall

ER 6

FUL

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Search statement 2

?prt full legalall

1/1 PLUSPAT - (C) QUESTEL-ORBIT
PN - US5464551 A 19951107 [US5464551]
TI - (A) Stabilized phosphate ester-based functional fluid compositions
PA - (A) MONSANTO CO (US)
IN - (A) DEETMAN GERBRAND (US)
AP - US9926793 19930728 [1993US-0099267]
PR - US9926793 19930728 [1993US-0099267]
- US89718992 19920611 [1992US-0897189]
IC - (A) C10M-003/26
EC - C10M-105/74
- C10M-169/04F
PCL - ORIGINAL (O) : 252078500; CROSS-REFERENCE (X) : 252075000 252077000
252078100 508282000 508433000
DT - Corresponding document
CT - US3679587; US3718596; US3723320; US3931022; US3969254; US4206067;
US4324674; US4868023; US5035824; US5037567
STG - (A) United States patent
AB - A fluid composition suitable for use as an aircraft hydraulic fluid is disclosed. The fluid composition comprises a fire resistant phosphate ester base stock comprising between about 10% and about 100% by weight of a trialkyl phosphate, between about 0% and about 70% by weight of a dialkyl aryl phosphate, and from about 0% to about 25% by weight of an alkyl diaryl phosphate, with the proviso that the sum of the proportionate amount of each base stock component must equal 100%. The alkyl substituents of the trialkyl phosphate, the dialkyl aryl phosphate, and the alkyl diaryl phosphate contain between 3 and 8 carbon atoms, preferably between 4 and 8 carbon atoms, more preferably between 4 and 5 carbon atoms, and are bonded to the phosphate moiety via a primary carbon. It is still further preferred that the alkyl substituents of the trialkyl phosphate, the dialkyl aryl phosphate, and the alkyl diaryl phosphate are isoalkyl groups. The fluid composition further comprises an acid scavenger, an anti-erosion additive, a viscosity index improver, and an antioxidant. A novel additive combination comprises a high molecular weight butyl/hexyl methacrylate viscosity index improver, a perfluoroalkylsulfonate anti-erosion additive, a 3,4-epoxycyclohexanecarboxylate or a diepoxide acid scavenger, a di(alkylphenyl)amine, and a phenolic antioxidant comprising a mixture of a 2,4,6-trialkylphenol and a hindered polyphenol compound selected from the group consisting of bis(3,5-dialkyl-4-hydroxyaryl)methane, 1,3,5-trialkyl-2,4,6-tris(3,5-di-tert-butyl-4-hydroxyaryl)benzene and mixtures thereof. Preferably, the fluid composition further comprises a benzotriazole derivative as a copper corrosion inhibitor, and a 4,5-dihydroimidazole derivative,

as an iron corrosion inhibitor and to enhance the stability of the fluid.

1/1 LGST - (C) LEGSTAT
PN - US 5464551 [US5464551]
AP - US 99267/93 19930728 [1993US-0099267]
DT - US-P
ACT - 19930728 US/AE-A
APPLICATION DATA (PATENT)
{US 99267/93 19930728 [1993US-0099267]}
- 19931115 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
MONSANTO COMPANY A DELAWARE CORPORATION 800 N. LINDBERGH BLVD. ST.
LOUIS, MO 63 * DEETMAN, GERBRAND : 19930728
- 19951107 US/A
PATENT
- 19970826 US/RR [+]
REQUEST FOR REEXAMINATION FILED
970702
- 19980106 US/RF
REISSUE APPLICATION FILED
971107
- 20010724 US/RF
REISSUE APPLICATION FILED
20010308
UP - 2001-32

1/1 CRXX - (C) CLAIMS/RRX
PN - 5,464,551 A 19951107 [US5464551]
PA - Monsanto Co
ACT - 19970703 REEXAMINATION REQUESTED
ISSUE DATE OF O.G.: 19970826
REEXAMINATION REQUEST NUMBER: 90/004683
Owner: Monsanto Co., St. Louis, MO

- 19971107 REISSUE REQUESTED
ISSUE DATE OF O.G.: 19980106
REISSUE REQUEST NUMBER: 08/966425
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 1105

Reissue Patent Number:

- 19971128 REASSIGNED
ASSIGNMENT OF ASSIGNOR'S INTEREST

Assignor: MONSANTO COMPANY DATE SIGNED: 08/24/1997

Assignee: SOLUTIA INC. 10300 OLIVE BOULEVARD, P.O. BOX 66760 ST.
LOUIS, MISSOURI 63166-676

Reel 008820/Frame 0846

Contact: ARNOLD, WHITE & DURKEE PATRICIA A. KAMMERER 750 BERING DRIVE,
SUITE 400 HOUSTON, TEXAS 77057

- 20010308 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20010724
 REISSUE REQUEST NUMBER: 09/801883
 EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 1725

Reissue Patent Number:

1/4 PAST - (C) PAST
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 PN - 5464551 A [US5464551]
 OG - 2001-07-24
 ACT - REISSUE APPLICATION FILED

2/4 PAST - (C) PAST
 AN - 200112-001666
 PN - 5464551 A [US5464551]
 OG - 2001-03-20
 ACT - REISSUE PATENT
 RL - USRE37101

3/4 PAST - (C) PAST
 AN - 199801-001233
 PN - 5464551 A [US5464551]
 OG - 1998-01-06
 ACT - REISSUE APPLICATION FILED

4/4 PAST - (C) PAST
 AN - 199734-001421
 PN - 5464551 A [US5464551]
 OG - 1997-08-26
 ACT - REQUEST FOR REEXAMINATION FILED

Search statement 2

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1 Patent Groups

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1/21 PLUSPAT - (C) QUESTEL-ORBIT
 PN - AT166102 T 19980515 [ATE166102]

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AP - AT 93914295/93-EP 19930601 [1993EP-0914295]
PR - US 897189/92-A 19920611 [1992US-0897189]
IC - C10M-105/74; C10M-169/04; C10M-105/74; C10M-129/10; C10M-129/14;
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- 19981115 AT/RER [-]
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PUBLICATION OF APPLICATION WITH SEARCH REPORT
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- 19980626 EP/ET [+]
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- 19980811 EP/ITF [+]
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NL: MODIFICATIONS (OF NAMES), TAKEN FROM THE EUROPEAN PATENT PATENT
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PN - AU 44006/93 A1 19940104 [AU9344006]
TI - FUNCTIONAL FLUID
IN - DEETMAN GERBRAND
PA - MONSANTO CO
AP - AU 44006/93-A 19930601 [1993AU-0044006]
PR - WO 9305201/93(US)-A 19930601 [1993WO-US05201]
- US 897189/92-A 19920611 [1992US-0897189]
IC - C10M-105/74; C10M-169/04

3/27 INPADOC - (C) INPADOC

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PA - MONSANTO CO
AP - AU 44006/93-A 19930601 [1993AU-0044006]
PR - US 897189/92-A 19920611 [1992US-0897189]
- WO 9305201/93(US)-W 19930601 [1993WO-US05201]
IC - C10M-105/74; C10M-169/04

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TI - FLUIDO FUNCIONAL
IN - DEETMAN GERBRAND
PA - MONSANTO CO [US]
AP - BR 9306530/93-A 19930601 [1993BR-0006530]
PR - US 897189/92-A 19920611 [1992US-0897189]
- WO 9305201/93(US)-W 19930601 [1993WO-US05201]
IC - C10M-105/74; C10M-169/04

1/1 LEGALI - (C) LEGSTAT

PN - BR 9306530 [BR9306530]
DT - BR-P
ACT - 20000822 BR/FB36 [-]
GRANT PROCEDURE SUSPENDED ART. 36 OF LPI
EXIGENCIA ART. 36 DA LPI
- 20010306 BR/PC
TRANSFER
TRANSFERENCIA DEFERIDA
Solutia Inc. (US)
- 20010410 BR/TE
CHANGE OF ADDRESS
ALTERACAO DE SEDE DEFERIDA
UP - 2001-21

5/27 INPADOC - (C) INPADOC

PN - CN 1084551 A 19940330 [CN1084551]
TI - FUNCTIONAL FLUID
IN - DEETMAN GERBRAND [US]

PA - MONSANTO CO [US]
 AP - CN 93108716/93-A 19930610 [1993CN-0108716]
 PR - US 897189/92-A 19920611 [1992US-0897189]
 IC - C10M-105/74

6/27 INPADOC - (C) INPADOC

PN - CN 1040018 B 19980930 [CN1040018]
 TI - FUNCTIONAL FLUID
 IN - DEETMANN G [US]
 PA - MONSANTO CO [US]
 AP - CN 93108716/93-A 19930610 [1993CN-0108716]
 PR - US 897189/92-A 19920611 [1992US-0897189]
 IC - C10M-105/74

7/27 INPADOC - (C) INPADOC

PN - CZ 9403087 A3 19960117 [CZ9403087]
 TI - STABILIZED FUNCTIONAL LIQUID COMPOSITION BASED ON PHOSPHATE ESTERS
 IN - DEETMAN GERBRAND [US]
 PA - MONSANTO CO [US]
 AP - CZ 3087/94-A 19930601 [1994CZ-0003087]
 PR - US 897189/92-A 19920611 [1992US-0897189]
 IC - C10M-137/04; C10M-169/04

1/1 LEGALI - (C) LEGSTAT

PN - CZ 9403087 [CZ9403087]
 DT - CZ-A
 ACT - 20000630 CZ/PD00
 Pending as of 2000-06-30
 V rizeni 2000-06-30
 UP - 2000-41

8/27 INPADOC - (C) INPADOC

PN - DE 69318555 CO 19980618 [DE69318555]
 TI - FUNKTIONELLE FLUESSIGKEIT
 IN - DEETMAN GERBRAND [US]
 PA - MONSANTO CO [US]
 AP - DE 69318555/93-A 19930601 [1993DE-6018555]
 PR - US 897189/92-A 19920611 [1992US-0897189]
 WO 9305201/93(US)-W 19930601 [1993WO-US05201]
 IC - C10M-105/74; C10M-169/04

1/2 LEGALI - (C) LEGSTAT

PN - DE 69318555 [DE69318555]
 DT - DE-P
 ACT - 19980618 DE/REF-P
 CORRESPONDS TO
 ENTSPRICHT
 (EP 644922 19980618 [EP-644922])
 - 19981203 DE/8373
 TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND HAS
 BEEN PUBLISHED
 UEBERSETZUNG DER PATENTSCHRIFT DES EUROPAEISCHEN PATENTES IST
 EINGEGANGEN UND VEROEFFENTLICHT WORDEN
 - 19990512 DE/8363 [-]

OPPOSITION AGAINST THE PATENT
EINSRUCH GEGEN DAS PATENT ERHOBEN

UP - 1999-19

2/2 LEGALI - (C) LEGSTAT

PN - EP 644922 [EP-644922]

AP - EP 93914295/93 19930601 [1993EP-0914295]

DT - EP-P

ACT - 19930601 EP/AE-A

EP-APPLICATION

EUROPAEISCHE ANMELDUNG

{EP 93914295/93 19930601 [1993EP-0914295]}

- 19950329 EP/AK-A1 [+]

DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT:
IN EINER ANMELDUNG BENANNT VERTRAGSSTAATEN

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

- 19950329 EP/A1 [+]

PUBLICATION OF APPLICATION WITH SEARCH REPORT

VEROEFFENTLICHUNG DER ANMELDUNG MIT RECHERCHENBERICHT

- 19950329 EP/17P [+]

REQUEST FOR EXAMINATION FILED

PRUEFUNGSANTRAG GESTELLT

941207

- 19950716 EP/REG; ES/BA2A

ES: PROVISIONAL PROTECTION

ES: PROTECCION PROVISIONAL

2072239T1

<ES>

- 19960417 EP/17Q [+]

FIRST EXAMINATION REPORT

ERSTER PRUEFUNGSBESCHEID

960305

- 19980513 EP/AK-B1 [+]

DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION:
IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNT VERTRAGSSTAATEN

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

- 19980513 EP/B1 [+]

PATENT SPECIFICATION

PATENTSCHRIFT

- 19980513 EP/REF-R [+]

IN AUSTRIA REGISTERED AS:

IN AT EINGETRAGEN ALS:

(AT 166102 19980515 [ATE166102])

- 19980515 EP/REG; CH/EP [+]

CH: ENTRY IN THE NATIONAL PHASE

CH: EINTRITT IN DIE NATIONALE PHASE

<CH>

- 19980615 EP/REG; CH/NV

CH: NEW AGENT

CH: NEUER VERTRETER/NOUVEAUX MANDATAIRES/NUOVI MANDATARI

A. BRAUN, BRAUN, HERITIER, ESCHMANN AG PATENTANWELTE

<CH>

- 19980618 EP/REF-P

CORRESPONDS TO:

ENTSPRICHT

(DE 69318555 19980618 [DE69318555])

- 19980626 EP/ET [+]

FR: TRANSLATION FILED

FR: TRADUCTION A ETE REMISE

- 19980811 EP/ITF [+]
IT: TRANSLATION FOR A EP PATENT FILED
IT: DEPOSITO TRADUZIONE DI BREVETTO EUROPEO
MODIANO & ASSOCIATI S:R.L.
- 19980812 EP/REG; IE/FG4D
IE: EUROPEAN PATENTS GRANTED DESIGNATING IRELAND
IE: EUROPEAN PATENTS GRANTED DESIGNATING IRELAND
80307
<IE>
- 19981118 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<SE 19980813>
- 19981230 EP/25 [-]
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<AT 19980513>
- 19981230 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<SE 19980813>
- 19990407 EP/26 [-]
OPPOSITION FILED
EINSPRUCH EINGELEGT
990215 EXXON RESEARCH AND ENGINEERING COMPANY
- 19990601 EP/NLR1 [-]
NL: OPPOSITION HAS BEEN FILED WITH THE EPO
NL: EUROPESE OCTROOIEN, WAARTEGEN OPPOSITIE IS INGESTELD
EXXON RESEARCH AND ENGINEERING COMPANY
- 19990811 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
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- 19990811 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<PT 19980813>
- 19990811 EP/25 [-]
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ERLOSCHEN GEM. REGEL 92 1 P
<SE 19980813>
- 19990929 EP/R26 [-]
OPPOSITION FILED (CORRECTION)
EINSPRUCH EINGELEGT (KORR.)
19990215 EXXON RESEARCH AND ENGINEERING COMPANY
- 19991027 EP/RAP2
PATENT OWNER REASSIGNMENT (CORRECTION)
PATENTINHABER UEBERTRAGUNG (KORR.)
SOLUTIA INC.
- 19991201 EP/NLR1 [-]
NL: OPPOSITION HAS BEEN FILED WITH THE EPO
NL: EUROPESE OCTROOIEN, WAARTEGEN OPPOSITIE IS INGESTELD
EXXON RESEARCH AND ENGINEERING COMPANY
- 20000103 EP/NLT2
NL: MODIFICATIONS (OF NAMES), TAKEN FROM THE EUROPEAN PATENT PATENT
BULLETIN
NL: (NAAMS)WIJZIGINGEN, DIE ZIJN OVERGENOMEN UIT HET EP OCTROOIBLAD
SOLUTIA INC.
- 20000202 EP/25 [-]

- LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<AT 19980513>
- 20000202 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<GR 19980513>
- 20000202 EP/25 [-]
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ERLOSCHEN GEM. REGEL 92 1 P
<PT 19980813>
- 20000202 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<SE 19980813>
- 20000503 EP/REG; IE/MM4A [-]
IE: PATENT LAPSED
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- 20000621 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<AT 19980513>
- 20000621 EP/25 [-]
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- 20000621 EP/25 [-]
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- 20000621 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<PT 19980813>
- 20000621 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<SE 19980813>
- 20001129 EP/R26 [-]
OPPOSITION FILED (CORRECTION)
EINSPRUCH EINGELEGT (KORR.)
19990215 EXXON MOBIL RESEARCH AND ENGINEERING COMP.,
- 20010201 EP/NLR1 [-]
NL: OPPOSITION HAS BEEN FILED WITH THE EPO
NL: EUROPESE OCTROOIEN, WAARTEGEN OPPOSITIE IS INGESTELD
EXXON MOBIL RESEARCH AND ENGINEERING COMP.,
- 20010228 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<AT 19980513>
- 20010228 EP/25 [-]
LAPSED AS TO RULE 92 1 P
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<GR 19980513>
- 20010228 EP/25 [-]
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<IE 19990601>

- 20010228 EP/25 [-]
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ERLOSCHEN GEM. REGEL 92 1 P
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- 20010228 EP/25 [-]
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ERLOSCHEN GEM. REGEL 92 1 P
<PT 19980813>
- 20010228 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<SE 19980813>
- UP - 2001-09

9/27 INPADOC - (C) INPADOC
 PN - DE 69318555 T2 19981203 [DE69318555]
 TI - FUNKTIONELLE FLUESSIGKEIT
 IN - DEETMAN GERBRAND [US]
 PA - MONSANTO CO [US]
 AP - DE 69318555/93-A 19930601 [1993DE-6018555]
 PR - US 897189/92-A 19920611 [1992US-0897189]
 - WO 9305201/93(US)-W 19930601 [1993WO-US05201]
 IC - C10M-105/74; C10M-169/04

1/2 LEGALI - (C) LEGSTAT
 PN - DE 69318555 [DE69318555]
 DT - DE-P
 ACT - 19980618 DE/REF-P
 CORRESPONDS TO
 ENTSPRICHT
 (EP 644922 19980618 [EP-644922])
 - 19981203 DE/8373
 TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND HAS
 BEEN PUBLISHED
 UEBERSETZUNG DER PATENTSCHRIFT DES EUROPAEISCHEN PATENTES IST
 EINGEGANGEN UND VEROEFFENTLICHT WORDEN
 - 19990512 DE/8363 [-]
 OPPOSITION AGAINST THE PATENT
 EINSPRUCH GEGEN DAS PATENT ERHOBEN
 UP - 1999-19

2/2 LEGALI - (C) LEGSTAT
 PN - EP 644922 [EP-644922]
 AP - EP 93914295/93 19930601 [1993EP-0914295]
 DT - EP-P
 ACT - 19930601 EP/AE-A
 EP-APPLICATION
 EUROPAEISCHE ANMELDUNG
 {EP 93914295/93 19930601 [1993EP-0914295]}
 - 19950329 EP/AK-A1 [+]
 DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT:
 IN EINER ANMELDUNG BENANNTE VERTRAGSSTAATEN
 AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE
 - 19950329 EP/A1 [+]
 PUBLICATION OF APPLICATION WITH SEARCH REPORT
 VEROEFFENTLICHTUNG DER ANMELDUNG MIT RECHERCHENBERICHT
 - 19950329 EP/17P [+]

- REQUEST FOR EXAMINATION FILED
PRUEFUNGSANTRAG GESTELLT
941207
- 19950716 EP/REG; ES/BA2A
ES: PROVISIONAL PROTECTION
ES: PROTECCION PROVISIONAL
2072239T1
<ES>
 - 19960417 EP/17Q [+]
FIRST EXAMINATION REPORT
ERSTER PRUEFUNGSBESCHIED
960305
 - 19980513 EP/AK-B1 [+]
DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION:
IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNTTE VERTRAGSSTAATEN
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE
 - 19980513 EP/B1 [+]
PATENT SPECIFICATION
PATENTSCHRIFT
 - 19980513 EP/REF-R [+]
IN AUSTRIA REGISTERED AS:
IN AT EINGETRAGEN ALS:
(AT 166102 19980515 [ATE166102])
 - 19980515 EP/REG; CH/EP [+]
CH: ENTRY IN THE NATIONAL PHASE
CH: EINTRITT IN DIE NATIONALE PHASE
<CH>
 - 19980615 EP/REG; CH/NV
CH: NEW AGENT
CH: NEUER VERTRETER/NOUVEAUX MANDATAIRES/NUOVI MANDATARI
A. BRAUN, BRAUN, HERITIER, ESCHMANN AG PATENTANWAELTE
<CH>
 - 19980618 EP/REF-P
CORRESPONDS TO:
ENTSPRICHT
(DE 69318555 19980618 [DE69318555])
 - 19980626 EP/ET [+]
FR: TRANSLATION FILED
FR: TRADUCTION A ETE REMISE
 - 19980811 EP/ITF [+]
IT: TRANSLATION FOR A EP PATENT FILED
IT: DEPOSITO TRADUZIONE DI BREVETTO EUROPEO
MODIANO & ASSOCIATI S.R.L.
 - 19980812 EP/REG; IE/FG4D
IE: EUROPEAN PATENTS GRANTED DESIGNATING IRELAND
IE: EUROPEAN PATENTS GRANTED DESIGNATING IRELAND
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<IE>
 - 19981118 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<SE 19980813>
 - 19981230 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<AT 19980513>
 - 19981230 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P

- <SE 19980813>
- 19990407 EP/26 [-]
OPPOSITION FILED
EINSPRUCH EINGELEGT
990215 EXXON RESEARCH AND ENGINEERING COMPANY
- 19990601 EP/NLR1 [-]
NL: OPPOSITION HAS BEEN FILED WITH THE EPO
NL: EUROPESE OCTROOIEN, WAARTEGEN OPPOSITIE IS INGESTELD
EXXON RESEARCH AND ENGINEERING COMPANY
- 19990811 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<AT 19980513>
- 19990811 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
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- 19990811 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<SE 19980813>
- 19990929 EP/R26 [-]
OPPOSITION FILED (CORRECTION)
EINSPRUCH EINGELEGT (KORR.)
19990215 EXXON RESEARCH AND ENGINEERING COMPANY
- 19991027 EP/RAP2
PATENT OWNER REASSIGNMENT (CORRECTION)
PATENTINHABER UEBERTRAGUNG (KORR.)
SOLUTIA INC.
- 19991201 EP/NLR1 [-]
NL: OPPOSITION HAS BEEN FILED WITH THE EPO
NL: EUROPESE OCTROOIEN, WAARTEGEN OPPOSITIE IS INGESTELD
EXXON RESEARCH AND ENGINEERING COMPANY
- 20000103 EP/NLT2
NL: MODIFICATIONS (OF NAMES), TAKEN FROM THE EUROPEAN PATENT PATENT
BULLETIN
NL: (NAAMS)WIJZIGINGEN, DIE ZIJN OVERGENOMEN UIT HET EP OCTROOI BLAD
SOLUTIA INC.
- 20000202 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<AT 19980513>
- 20000202 EP/25 [-]
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- 20000202 EP/25 [-]
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ERLOSCHEN GEM. REGEL 92 1 P
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- 20000202 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<SE 19980813>
- 20000503 EP/REG; IE/MM4A [-]
IE: PATENT LAPSED
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- 20000621 EP/25 [-]

LAPSED AS TO RULE 92 1 P
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- 20000621 EP/25 [-]
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- 20000621 EP/25 [-]
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- 20000621 EP/25 [-]
LAPSED AS TO RULE 92 1 P
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<PT 19980813>
- 20000621 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<SE 19980813>
- 20001129 EP/R26 [-]
OPPOSITION FILED (CORRECTION)
EINSPRUCH EINGELEGT (KORR.)
19990215 EXXON MOBIL RESEARCH AND ENGINEERING COMP.,
- 20010201 EP/NLR1 [-]
NL: OPPOSITION HAS BEEN FILED WITH THE EPO
NL: EUROPESE OCTROOIEN, WAARTEGEN OPPOSITIE IS INGESTELD
EXXON MOBIL RESEARCH AND ENGINEERING COMP.,
- 20010228 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
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- 20010228 EP/25 [-]
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- 20010228 EP/25 [-]
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- 20010228 EP/25 [-]
LAPSED AS TO RULE 92 1 P
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- 20010228 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<SE 19980813>
UP - 2001-09

10/27 INPADOC - (C) INPADOC
PN - EP 644922 A1 19950329 [EP-644922]
TI - FUNCTIONAL FLUID.
LA - ENG
IN - DEETMAN GERBRAND [US]

PA - MONSANTO CO [US]
AP - EP 93914295/93-A 19930601 [1993EP-0914295]
PR - US 897189/92-A 19920611 [1992US-0897189]
- WO 9305201/93(US)-W 19930601 [1993WO-US05201]
IC - C10M-105/74; C10M-169/04; C10M-169/04; C10M-105/74; C10M-129/10;
C10M-129/14; C10M-129/18; C10M-129/66; C10M-133/12; C10M-133/46;
C10M-135/10
DS - AT* BE* CH* DE* DK* ES* FR* GB* GR* IE* IT* LI* LU* MC* NL* PT* SE*

1/3 LEGALI - (C) LEGSTAT

PN - DE 69318555 [DE69318555]
DT - DE-P
ACT - 19980618 DE/REF-P
CORRESPONDS TO
ENTSPRICHT
(EP 644922 19980618 [EP-644922])
- 19981203 DE/8373
TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND HAS
BEEN PUBLISHED
UEBERSETZUNG DER PATENTSCHRIFT DES EUROPÄISCHEN PATENTES IST
EINGEGANGEN UND VEROEFFENTLICHT WORDEN
- 19990512 DE/8363 [-]
OPPOSITION AGAINST THE PATENT
EINSPRUCH GEGEN DAS PATENT ERHOHEN
UP - 1999-19

2/3 LEGALI - (C) LEGSTAT

PN - AT 166102 [ATE166102]
DT - AT-R
ACT - 19980515 AT/REF-P
CORRESPONDS TO EP-PATENT
ENTSPRICHT EP-PATENT
(EP 644922 19980513 [EP-644922])
- 19981115 AT/RER [-]
CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES
ERLOSCHEN GEM. PAR. 5 ABS. 3 PATVEG.
UP - 1998-47

3/3 LEGALI - (C) LEGSTAT

PN - EP 644922 [EP-644922]
AP - EP 93914295/93 19930601 [1993EP-0914295]
DT - EP-P
ACT - 19930601 EP/AE-A
EP-APPLICATION
EUROPÄISCHE ANMELDUNG
{EP 93914295/93 19930601 [1993EP-0914295]}
- 19950329 EP/AK-A1 [+]
DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT:
IN EINER ANMELDUNG BENANNTE VERTRAGSSTAATEN
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE
- 19950329 EP/A1 [+]
PUBLICATION OF APPLICATION WITH SEARCH REPORT
VEROEFFENTLICHUNG DER ANMELDUNG MIT RECHERCHENBERICHT
- 19950329 EP/17P [+]
REQUEST FOR EXAMINATION FILED
PRUEFUNGSANTRAG GESTELLT
941207
- 19950716 EP/REG; ES/BA2A

- ES: PROVISIONAL PROTECTION
ES: PROTECCION PROVISIONAL
2072239T1
<ES>
- 19960417 EP/17Q [+]
FIRST EXAMINATION REPORT
ERSTER PRUEFUNGSBESCHEID
960305
 - 19980513 EP/AK-B1 [+]
DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION:
IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNTE VERTRAGSSTAATEN
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE
 - 19980513 EP/B1 [+]
PATENT SPECIFICATION
PATENTSCHRIFT
 - 19980513 EP/REF-R [+]
IN AUSTRIA REGISTERED AS:
IN AT EINGETRAGEN ALS:
(AT 166102 19980515 [ATE166102])
 - 19980515 EP/REG; CH/EP [+]
CH: ENTRY IN THE NATIONAL PHASE
CH: EINTRITT IN DIE NATIONALE PHASE
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 - 19980615 EP/REG; CH/NV
CH: NEW AGENT
CH: NEUER VERTRETER/NOUVEAUX MANDATAIRES/NUOVI MANDATARI
A. BRAUN, BRAUN, HERITIER, ESCHMANN AG PATENTANWAELTE
<CH>
 - 19980618 EP/REF-P
CORRESPONDS TO:
ENTSPRICHT
(DE 69318555 19980618 [DE69318555])
 - 19980626 EP/ET [+]
FR: TRANSLATION FILED
FR: TRADUCTION A ETE REMISE
 - 19980811 EP/ITF [+]
IT: TRANSLATION FOR A EP PATENT FILED
IT: DEPOSITO TRADUZIONE DI BREVETTO EUROPEO
MODIANO & ASSOCIATI S.R.L.
 - 19980812 EP/REG; IE/FG4D
IE: EUROPEAN PATENTS GRANTED DESIGNATING IRELAND
IE: EUROPEAN PATENTS GRANTED DESIGNATING IRELAND
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<IE>
 - 19981118 EP/25 [-]
LAPSED AS TO RULE 92 1 P
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 - 19981230 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<AT 19980513>
 - 19981230 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<SE 19980813>
 - 19990407 EP/26 [-]
OPPOSITION FILED
EINSPRUCH EINGELEGT

- 990215 EXXON RESEARCH AND ENGINEERING COMPANY
- 19990601 EP/NLR1 [-]
NL: OPPOSITION HAS BEEN FILED WITH THE EPO
NL: EUROPESE OCTROOIEN, WAARTEGEN OPPOSITIE IS INGESTELD
EXXON RESEARCH AND ENGINEERING COMPANY
 - 19990811 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<AT 19980513>
 - 19990811 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<PT 19980813>
 - 19990811 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<SE 19980813>
 - 19990929 EP/R26 [-]
OPPOSITION FILED (CORRECTION)
EINSPRUCH EINGELEGT (KORR.)
19990215 EXXON RESEARCH AND ENGINEERING COMPANY
 - 19991027 EP/RAP2
PATENT OWNER REASSIGNMENT (CORRECTION)
PATENTINHABER UEBERTRAGUNG (KORR.)
SOLUTIA INC.
 - 19991201 EP/NLR1 [-]
NL: OPPOSITION HAS BEEN FILED WITH THE EPO
NL: EUROPESE OCTROOIEN, WAARTEGEN OPPOSITIE IS INGESTELD
EXXON RESEARCH AND ENGINEERING COMPANY
 - 20000103 EP/NLT2
NL: MODIFICATIONS (OF NAMES), TAKEN FROM THE EUROPEAN PATENT PATENT
BULLETIN
NL: (NAAMS)WIJZIGINGEN, DIE ZIJN OVERGENOMEN UIT HET EP OCTROOIENBLAD
SOLUTIA INC.
 - 20000202 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<AT 19980513>
 - 20000202 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<GR 19980513>
 - 20000202 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<PT 19980813>
 - 20000202 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<SE 19980813>
 - 20000503 EP/REG; IE/MM4A [-]
IE: PATENT LAPSED
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 - 20000621 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<AT 19980513>
 - 20000621 EP/25 [-]

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- 20000621 EP/25 [-]
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<MC 19991231>
- 20000621 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<PT 19980813>
- 20000621 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<SE 19980813>
- 20001129 EP/R26 [-]
OPPOSITION FILED (CORRECTION)
EINSPRUCH EINGELEGT (KORR.)
19990215 EXXON MOBIL RESEARCH AND ENGINEERING COMP.,
- 20010201 EP/NLR1 [-]
NL: OPPOSITION HAS BEEN FILED WITH THE EPO
NL: EUROPESE OCTROOIEN, WAARTEGEN OPPOSITIE IS INGESTELD
EXXON MOBIL RESEARCH AND ENGINEERING COMP.,
- 20010228 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<AT 19980513>
- 20010228 EP/25 [-]
LAPSED AS TO RULE 92 1 P
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- 20010228 EP/25 [-]
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<IE 19990601>
- 20010228 EP/25 [-]
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<MC 19991231>
- 20010228 EP/25 [-]
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- 20010228 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<SE 19980813>
UP - 2001-09

11/27 INPADOC - (C) INPADOC
PN - EP 644922 B1 19980513 [EP-644922]
TI - FUNCTIONAL FLUID
LA - ENG
IN - DEETMAN GERBRAND [US]
PA - MONSANTO CO [US]
AP - EP 93914295/93-A 19930601 [1993EP-0914295]
PR - US 897189/92-A 19920611 [1992US-0897189]
- WO 9305201/93(US)-W 19930601 [1993WO-US05201]

IC - C10M-105/74; C10M-169/04; C10M-169/04; C10M-105/74; C10M-129/10;
C10M-129/14; C10M-129/18; C10M-129/66; C10M-133/12; C10M-133/46;
C10M-135/10
DS - AT* BE* CH* DE* DK* ES* FR* GB* GR* IE* IT* LI* LU* MC* NL* PT* SE*

1/3 LEGALI - (C) LEGSTAT

PN - DE 69318555 [DE69318555]

DT - DE-P

ACT - 19980618 DE/REF-P

CORRESPONDS TO

ENTSPRICHT

(EP 644922 19980618 [EP-644922])

- 19981203 DE/8373

TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND HAS
BEEN PUBLISHEDUEBERSETZUNG DER PATENTSCHRIFT DES EUROPÄISCHEN PATENTES IST
EINGEGANGEN UND VEROEFFENTLICHT WORDEN

- 19990512 DE/8363 [-]

OPPOSITION AGAINST THE PATENT

EINSPRUCH GEGEN DAS PATENT ERHOBEN

UP - 1999-19

2/3 LEGALI - (C) LEGSTAT

PN - AT 166102 [ATE166102]

DT - AT-R

ACT - 19980515 AT/REF-P

CORRESPONDS TO EP-PATENT

ENTSPRICHT EP-PATENT

(EP 644922 19980513 [EP-644922])

- 19981115 AT/RER [-]

CEASED AS TO PARAGRAPH 5 LIT. 3 LAW INTRODUCING PATENT TREATIES
ERLOSCHEN GEM. PAR. 5 ABS. 3 PATVEG.

UP - 1998-47

3/3 LEGALI - (C) LEGSTAT

PN - EP 644922 [EP-644922]

AP - EP 93914295/93 19930601 [1993EP-0914295]

DT - EP-P

ACT - 19930601 EP/AE-A

EP-APPLICATION

EUROPÄISCHE ANMELDUNG

{EP 93914295/93 19930601 [1993EP-0914295]}

- 19950329 EP/AK-A1 [+]

DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT:
IN EINER ANMELDUNG BENANNT VERTRAGSSTAATEN

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

- 19950329 EP/A1 [+]

PUBLICATION OF APPLICATION WITH SEARCH REPORT

VEROEFFENTLICHERUNG DER ANMELDUNG MIT RECHERCHENBERICHT

- 19950329 EP/17P [+]

REQUEST FOR EXAMINATION FILED

PRUEFUNGSANTRAG GESTELLT

941207

- 19950716 EP/REG; ES/BA2A

ES: PROVISIONAL PROTECTION

ES: PROTECCION PROVISIONAL

2072239T1

<ES>

- 19960417 EP/17Q [+]
FIRST EXAMINATION REPORT
ERSTER PRUEFUNGSBESCHEID
960305
- 19980513 EP/AK-B1 [+]
DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION:
IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNTE VERTRAGSSTAATEN
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE
- 19980513 EP/B1 [+]
PATENT SPECIFICATION
PATENTSCHRIFT
- 19980513 EP/REF-R [+]
IN AUSTRIA REGISTERED AS:
IN AT EINGETRAGEN ALS:
(AT 166102 19980515 [ATE166102])
- 19980515 EP/REG; CH/EP [+]
CH: ENTRY IN THE NATIONAL PHASE
CH: EINTRITT IN DIE NATIONALE PHASE
<CH>
- 19980615 EP/REG; CH/NV
CH: NEW AGENT
CH: NEUER VERTRETER/NOUVEAUX MANDATAIRES/NUOVI MANDATARI
A. BRAUN, BRAUN, HERITIER, ESCHMANN AG PATENTANWALTE
<CH>
- 19980618 EP/REF-P
CORRESPONDS TO:
ENTSPRICHT
(DE 69318555 19980618 [DE69318555])
- 19980626 EP/ET [+]
FR: TRANSLATION FILED
FR: TRADUCTION A ETE REMISE
- 19980811 EP/ITF [+]
IT: TRANSLATION FOR A EP PATENT FILED
IT: DEPOSITO TRADUZIONE DI BREVETTO EUROPEO
MODIANO & ASSOCIATI S.R.L.
- 19980812 EP/REG; IE/FG4D
IE: EUROPEAN PATENTS GRANTED DESIGNATING IRELAND
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80307
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- 19981118 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
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- 19981230 EP/25 [-]
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- 19990407 EP/26 [-]
OPPOSITION FILED
EINSPRUCH EINGELEGT
990215 EXXON RESEARCH AND ENGINEERING COMPANY
- 19990601 EP/NLR1 [-]
NL: OPPOSITION HAS BEEN FILED WITH THE EPO
NL: EUROPESE OCTROOIEN, WAARTEGEN OPPOSITIE IS INGESTELD

- EXXON RESEARCH AND ENGINEERING COMPANY
- 19990811 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
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 - 19990811 EP/25 [-]
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 - 19990811 EP/25 [-]
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ERLOSCHEN GEM. REGEL 92 1 P
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 - 19990929 EP/R26 [-]
OPPOSITION FILED (CORRECTION)
EINSPRUCH EINGELEGT (KORR.)
19990215 EXXON RESEARCH AND ENGINEERING COMPANY
 - 19991027 EP/RAP2
PATENT OWNER REASSIGNMENT (CORRECTION)
PATENTINHABER UEBERTRAGUNG (KORR.)
SOLUTIA INC.
 - 19991201 EP/NLR1 [-]
NL: OPPOSITION HAS BEEN FILED WITH THE EPO
NL: EUROPESE OCTROOIEN, WAARTEGEN OPPOSITIE IS INGESTELD
EXXON RESEARCH AND ENGINEERING COMPANY
 - 20000103 EP/NLT2
NL: MODIFICATIONS (OF NAMES), TAKEN FROM THE EUROPEAN PATENT PATENT
BULLETIN
NL: (NAAMS)WIJZIGINGEN, DIE ZIJN OVERGENOMEN UIT HET EP OCTROOIBLAD
SOLUTIA INC.
 - 20000202 EP/25 [-]
LAPSED AS TO RULE 92 1 P
ERLOSCHEN GEM. REGEL 92 1 P
<AT 19980513>
 - 20000202 EP/25 [-]
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 - 20000202 EP/25 [-]
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 - 20000202 EP/25 [-]
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 - 20000503 EP/REG; IE/MM4A [-]
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 - 20000621 EP/25 [-]
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 - 20000621 EP/25 [-]
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 - 20000621 EP/25 [-]

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- 20000621 EP/25 [-]
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- 20000621 EP/25 [-]
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ERLOSCHEN GEM. REGEL 92 1 P
<SE 19980813>
- 20001129 EP/R26 [-]
OPPOSITION FILED (CORRECTION)
EINSPRUCH EINGELEGT (KORR.)
19990215 EXXON MOBIL RESEARCH AND ENGINEERING COMP.,
- 20010201 EP/NLR1 [-]
NL: OPPOSITION HAS BEEN FILED WITH THE EPO
NL: EUROPESE OCTROOIEN, WAARTEGEN OPPOSITIE IS INGESTELD
EXXON MOBIL RESEARCH AND ENGINEERING COMP.,
- 20010228 EP/25 [-]
LAPSED AS TO RULE 92 1 P
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- 20010228 EP/25 [-]
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- 20010228 EP/25 [-]
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- 20010228 EP/25 [-]
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UP - 2001-09

12/27 INPADOC - (C) INPADOC
PN - ES 2072239 T1 19950716 [ES2072239]
TI - FLUIDO FUNCIONAL.
IN - DEETMAN GERBRAND
PA - MONSANTO CO
AP - ES 93914295/93-EP 19930601 [1993EP-0914295]
PR - US 897189/92-A 19920611 [1992US-0897189]
IC - C10M-105/74; C10M-169/04; C10M-169/04; C10M-105/74; C10M-129/10;
C10M-129/14; C10M-129/18; C10M-129/66; C10M-133/12; C10M-133/46;
C10M-135/10

1/1 LEGALI - (C) LEGSTAT

PN - ES 2072239 [ES2072239]
DT - ES-P
ACT - 19950716 ES/BA2A
PROVISIONAL PROTECTION
PROTECCION PROVISIONAL
644922
UP - 1997-10

13/27 INPADOC - (C) INPADOC
PN - FI 945809 A0 19941209 [FI9405809]
TI - FUNKTIONELL VAETSKA
IN - DEETMAN GERBRAND [US]
PA - MONSANTO CO [US]
AP - FI 945809/94-A 19941209 [1994FI-0005809]
PR - US 897189/92-A 19920611 [1992US-0897189]
- WO 9305201/93(US)-W 19930601 [1993WO-US05201]
IC - C10M-000/00

14/27 INPADOC - (C) INPADOC
PN - FI 945809 A 19950202 [FI9405809]
TI - FUNKTIONELL VAETSKA
IN - DEETMAN GERBRAND [US]
PA - MONSANTO CO [US]
AP - FI 945809/94-A 19941209 [1994FI-0005809]
PR - US 897189/92-A 19920611 [1992US-0897189]
- WO 9305201/93(US)-W 19930601 [1993WO-US05201]
IC - C10M-000/00

15/27 INPADOC - (C) INPADOC
PN - HU 69300 A2 19950928 [HUT069300]
TI - FUNKTIONAL LIQUID COMPOSITIONS WITH STABILIZED PHOSPHATHE ESTHER
IN - DEETMAN GERBRAND [US]
PA - MONSANTO CO [US]
AP - HU 9403526/94-A 19930601 [1994HU-0003526]
PR - US 897189/92-A 19920611 [1992US-0897189]
IC - C10M-105/74; C10M-169/04

1/1 LEGALI - (C) LEGSTAT
PN - HU 69300 [HUT069300]
DT - HU-D
ACT - 19980330 HU/DFD9
TEMPORARY PROT. CANCELLED DUE TO NON-PAYMENT OF FEE
UP - 1998-15

16/27 INPADOC - (C) INPADOC
PN - IL 105981 A0 19931020 [IL-105981]
TI - FUNCTIONAL FLUID
PA - MONSANTO CO
AP - IL 105981/93-A 19930610 [1993IL-0105981]
PR - US 897189/92-A 19920611 [1992US-0897189]
IC - C10M-000/00

1/1 LEGALI - (C) LEGSTAT

PN - IL 105981 [IL-105981]
DT - IL-P
ACT - 19961114 IL/FF [+] PATENTS GRANTED
- 19990312 IL/HP CHANGES IN PROPRIETORSHIP
- 20000629 IL/RH [-] PATENTS VOID
UP - 2000-36

17/27 INPADOC - (C) INPADOC
PN - IL 105981 A1 19960618 [IL-105981]
TI - FUNCTIONAL FLUID
PA - MONSANTO CO [US]
AP - IL 105981/93-A 19930610 [1993IL-0105981]
PR - US 897189/92-A 19920611 [1992US-0897189]
IC - C10M-105/74

1/1 LEGALI - (C) LEGSTAT
PN - IL 105981 [IL-105981]
DT - IL-P
ACT - 19961114 IL/FF [+] PATENTS GRANTED
- 19990312 IL/HP CHANGES IN PROPRIETORSHIP
- 20000629 IL/RH [-] PATENTS VOID
UP - 2000-36

18/27 INPADOC - (C) INPADOC
PN - JP 7507830 T2 19950831 [JP07507830]
AP - JP 501547/94-A 19930601 [1994JP-0501547]
PR - US 897189/92-A 19920611 [1992US-0897189]
- WO 9305201/93(US)-W 19930601 [1993WO-US05201]
IC - C10M-169/04; C10M-169/04; C10M-105/74; C10M-137/04; C10M-145/14;
C10M-129/10; C10M-133/12; C10M-129/14; C10M-135/10; C10M-129/66;
C10M-133/14; C10M-133/46; C10N-020/02; C10N-020/04; C10N-030/00;
C10N-030/02; C10N-030/08; C10N-030/10; C10N-030/12; C10N-030/18;
C10N-040/08

19/27 INPADOC - (C) INPADOC
PN - KR 161554 B1 19990115 [KR-161554]
TI - STABILIZED PHOSPHATE ESTER-BASED FUNCTIONAL FLUID COMPOSITIONS
IN - DEETMAN GERBRAND [US]
PA - MONSANTO CO [US]
AP - KR 9474510/94-A 19941210 [1994KR-0074510]
PR - US 897189/92-A 19920611 [1992US-0897189]
- WO 9305201/93(US)-W 19930601 [1993WO-US05201]
IC - C10M-105/74; C10M-169/04

20/27 INPADOC - (C) INPADOC
PN - MX 9303478 A1 19940228 [MX9303478]
TI - FLUIDO FUNCIONAL.
IN - DEETMAN GERBRAND [US]

PA - MONSANTO CO [US]
AP - MX 9303478/93-A 19930610 [1993MX-0303478]
PR - US 897189/92-A 19920611 [1992US-0897189]
IC - C10M-137/04

21/27 INPADOC - (C) INPADOC
PN - NO 944776 A0 19941209 [NO9404776]
TI - FUNKSJONELT FLUID
IN - DEETMAN GERBRAND [US]
PA - MONSANTO CO [US]
AP - NO 944776/94-A 19941209 [1994NO-0004776]
PR - US 897189/92-A 19920611 [1992US-0897189]
WO 9305201/93(US)-A 19930601 [1993WO-US05201]
IC - C10M-000/00

22/27 INPADOC - (C) INPADOC
PN - NO 944776 A 19950125 [NO9404776]
TI - FUNKSJONELT FLUID
IN - DEETMAN GERBRAND [US]
PA - MONSANTO CO THE [US]
AP - NO 944776/94-A 19941209 [1994NO-0004776]
PR - US 897189/92-A 19920611 [1992US-0897189]
WO 9305201/93(US)-A 19930601 [1993WO-US05201]
IC - C10M-105/74; C10M-169/04

23/27 INPADOC - (C) INPADOC
PN - NZ 253574 A 19960126 [NZ-253574]
TI - HYDRAULIC FLUIDS FOR AIRCRAFT, BASED ON DI- OR TRI-ALKYL PHOSPHATE
ESTERS AND CONTAINING AN ACID SCAVENGER, ANTIOXIDANT, ANTI-EROSION
ADDITIVE AND VISCOSITY-IMPROVER
IN - DEETMAN GERBRAND
PA - MONSANTO CO
AP - NZ 253574/93-A 19930601 [1993NZ-0253574]
PR - US 897189/92-A 19920611 [1992US-0897189]
IC - C10M-105/74; C10M-169/04

24/27 INPADOC - (C) INPADOC
PN - US 37101 E1 20010320 [US--37101]
TI - STABILIZED PHOSPHATE ESTER-BASED FUNCTIONAL FLUID COMPOSITIONS
IN - DEETMAN GERBRAND [US]
PA - SOLUTIA INC [US]
AP - US 966425/97-A 19971107 [1997US-0966425]
PR - US 966425/97-A 19971107 [1997US-0966425]
US 99267/93-A5 19930728 [1993US-0099267]
US 897189/92-B2 19920611 [1992US-0897189]
IC - C10M-105/74

25/27 INPADOC - (C) INPADOC
PN - US 5464551 A 19951107 [US5464551]
TI - STABILIZED PHOSPHATE ESTER-BASED FUNCTIONAL FLUID COMPOSITIONS
IN - DEETMAN GERBRAND [US]
PA - MONSANTO CO [US]
AP - US 99267/93-A 19930728 [1993US-0099267]
PR - US 99267/93-A 19930728 [1993US-0099267]

- US 897189/92-B2 19920611 [1992US-0897189]
IC - C10M-003/26

1/1 LEGALI - (C) LEGSTAT

PN - US 5464551 [US5464551]

AP - US 99267/93 19930728 [1993US-0099267]

DT - US-P

ACT - 19930728 US/AE-A

APPLICATION DATA (PATENT)

{US 99267/93 19930728 [1993US-0099267]}

- 19931115 US/AS02

ASSIGNMENT OF ASSIGNOR'S INTEREST

MONSANTO COMPANY A DELAWARE CORPORATION 800 N. LINDBERGH BLVD. ST.
LOUIS, MO 63 * DEETMAN, GERBRAND : 19930728

- 19951107 US/A

PATENT

- 19970826 US/RR [+]

REQUEST FOR REEXAMINATION FILED
970702

- 19980106 US/RF

REISSUE APPLICATION FILED
971107

- 20010724 US/RF

REISSUE APPLICATION FILED
20010308

UP - 2001-32

26/27 INPADOC - (C) INPADOC

PN - WO 9325641 A1 19931223 [WO9325641]

TI - FUNCTIONAL FLUID

LA - ENG

IN - DEETMAN GERBRAND [US]

PA - MONSANTO CO [US]

AP - WO 9305201/93(US)-A 19930601 [1993WO-US05201]

PR - US 897189/92-A 19920611 [1992US-0897189]

IC - C10M-105/74; C10M-169/04; C10M-169/04; C10M-105/74; C10M-129/10;
C10M-129/14; C10M-129/18; C10M-129/66; C10M-133/12; C10M-133/46;
C10M-135/10

DS - AU* BR* CA* CZ* FI* HU* JP* KR* NO* NZ* PL* RU* AT BE CH DE DK ES FR
GB GR IE IT LU MC NL PT SE

1/2 LEGALI - (C) LEGSTAT

PN - CA 2136739 [CA2136739]

DT - CA-P

ACT - 19941125 CA/REFW-P

CORRESPONDS TO PCT APPLICATION

ENTSPRICHT PCT ANMELDUNG

<WO 9325641> [WO9325641]

UP - 1998-31

2/2 LEGALI - (C) LEGSTAT

PN - WO 9325641 [WO9325641]

AP - WO 9305201/93(US) 19930601 [1993WO-US05201]

DT - WO-P

ACT - 19930601 WO/AE-A

APPLICATION DATA

{WO 9305201/93(US) 19930601 [1993WO-US05201]}

- 19931223 WO/AK-A1 [+]
DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT
AU BR CA CZ FI HU JP KR NO NZ PL RU
- 19931223 WO/AL-A1 [+]
DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED
APPLICATION WITH SEARCH REPORT
AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
- 19931223 WO/A1 [+]
PUBLICATION OF THE INTERNATIONAL APPLICATION WITH THE INTERNATIONAL
SEARCH REPORT
- 19940317 WO/DFPE
REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH
MONTH FROM PRIORITY DATE
- 19940406 WO/121
EP: PCT APP. ART. 158 (1)
- 19940609 WO/EX32
EXTENSION UNDER RULE 32 EFFECTED AFTER COMPLETION OF TECHNICAL
PREPARATION FOR INTERNATIONAL PUBLICATION
UZ*
- 19940609 WO/LE32
LATER ELECTION FOR INTERNATIONAL APPLICATION FILED PRIOR TO EXPIRATION
OF 19TH MONTH FROM PRIORITY DATE OR ACCORDING TO RULE 32.2(B)
UZ*
- 19941125 WO/ENP-AA
ENTRY INTO THE NATIONAL PHASE IN:
<CA 2136739>
- 19950323 WO/EX32
EXTENSION UNDER RULE 32 EFFECTED AFTER COMPLETION OF TECHNICAL
PREPARATION FOR INTERNATIONAL PUBLICATION
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- 19950323 WO/LE32
LATER ELECTION FOR INTERNATIONAL APPLICATION FILED PRIOR TO EXPIRATION
OF 19TH MONTH FROM PRIORITY DATE OR ACCORDING TO RULE 32.2(B)
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- 19960517 WO/EX32
EXTENSION UNDER RULE 32 EFFECTED AFTER COMPLETION OF TECHNICAL
PREPARATION FOR INTERNATIONAL PUBLICATION
TJ+

UP - 1998-31

27/27 INPADOC - (C) INPADOC
PN - ZA 9304121 A 19940117 [ZA9304121]
TI - FUNCTIONAL FLUID
IN - DEETMAN GERBRAND
PA - MONSANTO CO
AP - ZA 4121/93-A 19930610 [1993ZA-0004121]
PR - US 897189/92-A 19920611 [1992US-0897189]
IC - C01M-000/00

Search statement 2

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